

What is claimed is:

1. A rechargeable electronic watch operating with an energy source comprising a power supply including a power generation means and a power storage means charged with electric energy generated from said power generation means, said rechargeable electronic watch comprising a watch circuit for counting or processing time information or function information or the like so as to outputting said information, a display means for displaying said time information or said function information or the like based on an output signal from said watch circuit, a power generation amount detecting means for detecting an amount of said power generation of said power generation means, and a control means for controlling the operation of said watch circuit in response to said amount of said power generation, wherein said watch circuit is driven in at least one clock operation mode selected, based on the control of said control means, from a plurality of clock operation modes provided in said rechargeable electronic watch, each of said modes being different from each other in power consumption.

2. A rechargeable electronic watch operating with an energy source comprising a power supply including a power generation means and a power storage means charged with electric energy generated from said power generation means, said rechargeable electronic watch comprising a watch circuit for counting or processing time information or function information or the like so as to outputting said information, a display means for displaying said time information or said function information or the like based on an output signal from said watch circuit, a charge amount detecting means for detecting an amount of charge stored in said power storage means, and a control means for controlling the operation of said watch circuit in response to said amount of said charge, wherein said watch circuit is driven in at least one clock operation mode selected, based on the control of said control means, from a plurality of clock operation modes provided in said rechargeable electronic



for controlling the operation of said watch circuit in response to said amount of said charge, wherein said watch circuit is driven in at least one clock operation mode selected, based on the control of said control means, from a plurality of clock operation modes provided in said rechargeable electronic watch, each of said modes being different from each other in power consumption.

5. A rechargeable electronic watch operating with an energy source comprising a power supply including a power generation means and a power storage means charged with electric energy generated from said power generation means, said rechargeable electronic watch comprising a watch circuit for counting or processing time information or function information or the like so as to outputting said information, a display means for displaying said time information or said function information or the like based on an output signal from said watch circuit, a power generation amount detecting means for detecting an amount of said power generation of said power generation means, a charge amount detecting means for detecting an amount of charge stored in said power storage means, and a control means for controlling the operation of said watch circuit in response to said amount of said power generation and said amount of said charge, wherein said watch circuit is driven in at least one clock operation mode selected, based on the control of said control means, from a plurality of clock operation modes provided in said rechargeable electronic watch, each of said modes being different from each other in power consumption.

6. The rechargeable electronic watch according to claim 1, 3 or 5, wherein, the lower said amount of said power generation is, said electronic watch is controlled to be driven under a clock operation mode whereby said electronic watch can be driven with the lesser power consumption and selected from a plurality of clock operation modes each being different from each other, in power consumption.

7. The rechargeable electronic watch according to claim 2, 4 or 5, wherein, the lower said amount of said charge is, said electronic watch is controlled to be



outputting said information, a display means for displaying said time information or said function information or the like based on an output signal from said watch circuit, a charge amount detecting means for detecting an amount of charge stored in said power storage means, and a control means for controlling the operation of said watch circuit in response to an energy balance of said amount of said charge and an amount of the power consumption of the rechargeable electronic watch, wherein said watch circuit is driven in at least one clock operation mode selected, based on the control of said control means, from a plurality of clock operation modes provided in said rechargeable electronic watch, each of said modes being different from each other in power consumption.

11. A rechargeable electronic watch operating with an energy source comprising a power supply including a power generation means and a power storage means charged with electric energy generated from said power generation means, said rechargeable electronic watch comprising a watch circuit for counting or processing time information or function information or the like so as to outputting said information, a display means for displaying said time information or said function information or the like based on an output signal from said watch circuit, a power generation amount detecting means for detecting an amount of said power generation of said power generation means, a remaining capacity detecting means for detecting the remaining capacity of said power storage means and a control means for controlling the operation of said watch circuit in response to an energy balance of said amount of said power generation and an amount of said remaining capacity and an amount of the power consumption of the rechargeable electronic watch, wherein said watch circuit is driven in at least one clock operation mode selected, based on the control of said control means, from a plurality of clock operation modes provided in said rechargeable electronic watch, each of said modes being different from each other in power consumption.

12. A rechargeable electronic watch operating with an energy source comprising a power supply including a power generation means and a power storage means charged with electric energy generated from said power generation means, said rechargeable electronic watch comprising a watch circuit for counting or processing time information or function information or the like so as to outputting said information, a display means for displaying said time information or said function information or the like based on an output signal from said watch circuit, a charge amount detecting means for detecting an amount of charge stored in said power storage means, a remaining capacity detecting means for detecting the remaining capacity of said power storage means and a control means for controlling the operation of said watch circuit in response to an energy balance of said amount of said charge and an amount of said remaining capacity and an amount of the power consumption of the rechargeable electronic watch, wherein said watch circuit is driven in at least one clock operation mode selected, based on the control of said control means, from a plurality of clock operation modes provided in said rechargeable electronic watch, each of said modes being different from each other in power consumption.

13. A rechargeable electronic watch operating with an energy source comprising a power supply including a power generation means and a power storage means charged with electric energy generated from said power generation means, said rechargeable electronic watch comprising a watch circuit for counting or processing time information or function information or the like so as to outputting said information, a display means for displaying said time information or said function information or the like based on an output signal from said watch circuit, a power generation amount detecting means for detecting an amount of said power generation of said power generation means, a charge amount detecting means for detecting an amount of charge stored in said power storage means, and a control means for controlling the operation of said watch circuit in response to an energy balance of said amount of said charge

and an amount of said power generation and an amount of the power consumption of the rechargeable electronic watch, wherein said watch circuit is driven in at least one clock operation mode selected, based on the control of said control means, from a plurality of clock operation modes provided in said rechargeable electronic watch, each of said modes being different from each other in power consumption.

14. The rechargeable electronic watch according to any one of claims 9 to 13, wherein said control means drives said electronic watch at a predetermined clock operation mode selected from a plurality of clock operation modes each being different from each other, in power consumption, so that said energy balance may not be negative.

15. The rechargeable electronic watch according to any one of claims 1 to 5 and 9 to 13, wherein under said clock operation mode, at least a part of said display means is stopped.

16. The rechargeable electronic watch according to claim 14, wherein under said clock operation mode, at least a part of said display means is stopped.

17. The rechargeable electronic watch according to claim 6, wherein under said clock operation mode, at least a part of said display means is stopped.

18. The rechargeable electronic watch according to claim 7, wherein under said clock operation mode, at least a part of said display means is stopped.

19. The rechargeable electronic watch according to claim 8, wherein under said clock operation mode, at least a part of said display means is stopped.

20. The rechargeable electronic watch of claim 15, wherein said display means comprises a clock hand.

21. The rechargeable electronic watch of claim 15, wherein said display means is a digital display.

22. The rechargeable electronic watch according to any one of claims 1 to 5 and 9 to 13, wherein said electronic watch further comprising an user setting means allowing the user to set said clock operation mode, wherein said control means

drives the watch circuit at the user's desired clock operation mode, based on an output signal from said user setting means.

23. A driving method of a rechargeable electronic watch operating with an energy source comprising a power supply including a power generation means and a power storage means charged with electric energy generated from said power generation means, said rechargeable electronic watch is driven in at least one clock operation mode selected from a plurality of clock operation modes provided in said rechargeable electronic watch, each of said modes being different from each other in power consumption, in response to said amount of said power generation.

24. A driving method of a rechargeable electronic watch operating with an energy source comprising a power supply including a power generation means and a power storage means charged with electric energy generated from said power generation means, wherein said rechargeable electronic watch is driven in at least one clock operation mode selected from a plurality of clock operation modes provided in said rechargeable electronic watch, each of said modes being different from each other in power consumption, in response to an amount of charge stored in said power storage means.

25. A driving method of a rechargeable electronic watch operating with an energy source comprising a power supply including a power generation means and a power storage means charged with electric energy generated from said power generation means, wherein said rechargeable electronic watch is driven in at least one clock operation mode selected from a plurality of clock operation modes provided in said rechargeable electronic watch, each of said modes being different from each other in power consumption, in response to a remaining capacity of said power storage means detected by a remaining capacity detecting means and said amount of said power generation of said power generation means.

26. A driving method of a rechargeable electronic watch operating with an energy source comprising a power supply including a power generation means and



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